DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE:

NH-018-1(59) & BRN-NH-018-1(60) Paulding

OFFICE: Engineering Services

P. I. Nos.: 621570 & 641830

S.R. 61 Widening and Reconstruction

DATE: June 20, 2008

FROM:

Brian Summers, P.E., Project Review Engineer REW

1.1

TO:

Brent Story, PE, State Road and Airport Design Engineer

SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES

Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. Incorporate alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT No.	Description	Savings PW & LCC	Implement	Comments
		ROADW	AY (RD)	
RD-1	Increase the use of 11' lanes	\$559,413	Yes	This should be done.
RD-2	Reduce side street work on S.R. 120 Connector	\$180,007 (proposed) \$90,004 (actual)	Yes/partial	This will be reduced as much as feasible which is approximately half of what the VE Team recommended.
RD-3	Use 6' paved outside shoulders in lieu of 6.5' paved outside shoulders	\$80,916	N/A	This no longer applies since RD-4 will be implemented.
RD-4	Utilize a more consistent typical section throughout the project	63,487	Yes	This should be done.
RD-5	Re-align Campground School Road	Design Suggestion	No	The existing skew is acceptable and this VE Alternative would result in additional Right of Way and Construction costs.

NH-018-1(59) & BRN-NH-018-1(60) Paulding P. I. Nos.: 621570 & 641830 VE Study Implementation Page 2.

ALT No.	Description	Savings PW & LCC	Implement	Comments
	I De la company	ROADWAY (R	(D) - continued	i
RD-6	Re-align Dallas/Nebo Road intersection and improve it	\$293,330	No	There are a large number of vehicles making a left turn onto Dallas/Nebo from S.R. 61. The VE Alternative had this as a "Right-in/Right-out" intersection which would not accommodate the turning volumes.
RD-7	Re-align intersection of Aikin Drive	Design Suggestion	Yes	This should be done.
RD-8	Use alternate walls in lieu of Cast in Place Concrete	\$1,000,259	Yes	This should be done.
RD-9	From Sta. 90+00 to Sta. 125+00, obtain an Environmental Permit in lieu of realignment	\$5,082,800 (proposed) \$144,250 (actual)	Yes / modified	The original design would have required a PAR. The Design Office has modified the original alignment since the VE Study to avoid the need for a PAR. The actual savings shown is in Right of Way costs
RD-10	Eliminate Aikin Ridge and Country Square Way intersections at Sta. 140+00 to Sta. 152+00+	\$229,710	Yes	This should be done.
RD-11	Reconfigure intersection at Sta. 212+00 and split intersection from One – four leg intersection to two – two leg intersection	Design Suggestion	No	This would result in additional Environmental impacts.
RD-13	Reduce turn lane storage addition on U.S. 278	Design Suggestion	Yes	This should be done.
		BRIDG	GE (BR)	
BR-1	Use a single span bridge structure to cross trail and future track	\$510,336	No	This would require additional Temporary Shoring which was not included in the VE estimate.

NH-018-1(59) & BRN-NH-018-1(60) Paulding

P. I. Nos.: 621570 & 641830 VE Study Implementation

Page 3.

ALT No.	Description	Savings PW & LCC	Implement	Comments
		BRIDGE (BR	() - continued	
BR-2	Construct a 10' x 12' x 100' Box Culvert in lieu of a new bridge	\$1,369,344	YES	The Intermodal Office has recommended that a bridge be built here to accommodate a future rail line.
BR-3	Use a "One-Span" BEBO precast structure in lieu of a new bridge (trail and track)	\$494,505	No	The Intermodal Office has recommended that a bridge be built here to accommodate a future rail line.
BR-5	Use a single span structure to cross only the existing trail	\$647,245	No	The Intermodal Office has recommended that a bridge be built here to accommodate a future rail line.

A meeting was held on June 19, 2008 to discuss the above recommendations. Jim Simpson, Clay Bastian, and Walt Taylor with Road Design, and Brian Summers, Ron Wishon and Lisa Myers with Engineering Services were in attendance.

Additional information was provided by the Design Office on June 19, 2008.

The results above reflect the consensus of those in attendance and those who provided input.

Approved:

Dela MIT

Date: 7/22/05

Gerald M. Ross, P. E., Chief Engineer

BKS/REW

Attachments

c: Gus Shanine

R. Wayne Fedora

Todd Long

Paul Liles

Brent Story

Jim Simpson

NH-018-1(59) & BRN-NH-018-1(60) Paulding

P. I. Nos.: 621570 & 641830 VE Study Implementation

Page 4.

Clay Bastian
Paul Liles
Bill Ingalsbe
Bill DuVall
Doug Franks
James Magnus
Kenny Beckworth
Stephen Lively
Amber Perkins
Ken Werho
Nabil M. Raad
Lisa Myers



Preconstruction Status Report By PI Number

Print Date: 06/16/2008

MGMT. SCHED MGMT. PROJ ID COUNTY DESCRIPTION DATE LET DATE ROW DATE SR 61 FM S OF CR 467/DALLAS NEBO RD TO SR 6/DALLAS BYPASS Mar-12 621570-Paulding Oct-08 Mar-10

NH000-0018-01(059) TIP #: PA-061C1

MPO: Atlanta TMA

FIELD DIST: 6

641830-TWIN:

US: EST DATE: 11/15/2007

Phase Approved PE 1997 ROW 2009 CST2010

1997 1,166,430.36 2009 29,125,913.60 38,377,000.00

Cost

Q05 AUTHORIZED L240 PRECST

Fund

MODEL YR:

2020

PROJ LENGTH: 4.10

2010

Proposed

PRECST L240

Status

PROG

PROJ MGR: Bastian, Clay

Reconstruction/Rehabili TYPE

Widening

A A TOWN OF THE PARTY OF THE PA			Districts:			
SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept	10/28/1991	6/27/1997	100	
		Concept Meeting	12/12/1991	12/12/1991	100	
		Concept Submittal and Review	9/14/1992	9/14/1992	100	
		Receive Preconstruction Concept Approval	10/20/1992	10/20/1992	100	
		Management Concept Approval Complete	2/2/1993	2/12/1993	100	
		Revise or Re-validate Approved Concept	8/10/2004	9/2/2004	100	
6/25/2008	7/1/2008	Value Engineering Study	7/2/2007		97	
		Public Information Open House Held	11/8/2007	11/8/2007	100	
8/25/2009	8/24/2009	Environmental Approval	2/1/1997		91	
3/9/2009	3/9/2009	Public Hearing Held			0	
		Mapping	9/8/2005	10/31/2005	100	
		Field Surveys/SDE	1/3/2000	8/10/2006	100	
6/20/2008	9/11/2008	Preliminary Plans	7/1/1999		97	
6/20/2008	7/25/2008	Underground Storage Tanks	7/9/1998		99	
6/20/2008	11/6/2008	404 Permit Obtainment			0	
9/15/2009	9/16/2009	PFPR Inspection			0	
10/22/2009	1/13/2010	R/W Plans Preparation			0	
3/11/2010	3/16/2010	R/W Plans Final Approval			0	
10/22/2009	10/26/2009	L & D Report Development and Approval			0	
3/17/2010	1/25/2012	R/W Acquisition			0	
8/9/2010	8/20/2010	Stake R/W			0	
		Soil Survey	4/4/2002	7/1/2005	100	
10/27/2009	7/6/2010	Final Design			0	
7/28/2010	7/29/2010	FFPR Inspection			0	
8/12/2010	8/25/2010	FFPR Response			0	

BIKE PROVISIONS INCLUDED?: N

MEASUREMENT SYSTEM: E

CONSULTANT: N

UT EST: \$ 426,000.00

PDD:

NEED W/641830. NEED BRIDGE LAYOUTS. 10/4/01

Bridge: Design:

BRIDGE REQUIRED, SEE 641830 PRELIM PLANS IN-HOUSE 9/6/07

EIS:

EA/NotonSchedule/2-21-08/Phillips

LGPA:

PAULDING SGN P UTIL ONLY 4/96|DALLAS SGN P UTIL ONLY 12/95|RESCISSION LETTER SENT TO DALLAS & PAULDING

Prog. Develop: Project is no longer on the NHS 10-12-04.

Programming: PR2/P=11-18-96|#1 P=12-9-99|#2 6-02|#3 9-04|#4 6-07|#5 9-07|#6 5-08

Railroad:

CSX (ABN)

Traffic Op:

>WGW: S&M REQUESTED 4-23-08

Utility:

Plans resub to utilities 3-1-07; 8 of 9 sub. to PM 6-3-08

EMG:

RW CERT DT:

2129 (H85(94)-W/V88); OLD JOB #M1508/3004; DOT=M/S; C=D

R/W INFORMATION:

PREL PARCEL CT: 45

TOTAL PARCEL CT:

ACQUIRED BY: DOT

ACQ MGR:

UNDER-REVIEW CT:

RELEASED CT: OPT-PEND CT: ACQUIRED CT:

DEEDS CT: RELOCATION CT:

COND-PEND CT:

COND-FILED CT:

Monday has 16 2008

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Preconstruction Status Report By PI Number

Print Date: 06/16/2008

MGMT. MGMT. SCHED PROJ ID COUNTY DESCRIPTION LET DATE ROW DATE DATE Jun-11 641830-Paulding SR 61 BRIDGE OVER SILVER COMET TRAIL Oct-08 Mar-10

BRNNH-0018-01(060) TIP #: PA-061C2 MPO: Atlanta TMA

FIELD DIST: 6

621570-TWIN:

US: EST DATE: 11/15/2007

Phase Approved 1993 PECST 2010

Proposed Cost 1993 35,000.00 2010 1,350,000.00

Status Fund Q10 AUTHORIZED L1C0 PRECST

MODEL YR:

PROG

2010

PROJ MGR: Bastian, Clay Safety

0.03 PROJ LENGTH: Widening TYPE

SCHED START	SCHED FINISH	ACTIVITY Define Project Concept	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept		Comment of the Park of the Par		
		Define Project Concept	11/9/2007	11/22/2007	100	
		Concept Meeting	11/22/2007	11/22/2007	100	
		Concept Submittal and Review	10/19/2007	11/22/2007	100	
		Receive Preconstruction Concept Approval	5/25/1994	5/25/1994	100	
		Management Concept Approval Complete	5/25/1994	5/25/1994	100	
6/25/2008	7/1/2008	Value Engineering Study	7/2/2007		97	
7/11/2008	7/11/2008	Public Information Open House Held			0	
		Environmental Approval	2/1/1996	7/25/1996	100	
		Public Hearing Held	1/7/2000	1/9/2000	100	
	-	Field Surveys/SDE	10/26/2007	11/22/2007	100	
6/20/2008	11/20/2008	Preliminary Plans			0	
6/20/2008	6/20/2008	Preliminary Bridge Design	6/23/2003		100	
6/20/2008	7/25/2008	Underground Storage Tanks			0	
6/20/2008	10/2/2008	404 Permit Obtainment			0	
12/12/2008	12/15/2008	PFPR Inspection			0	
1/20/2009	4/13/2009	R/W Plans Preparation			0	
6/9/2009	6/12/2009	R/W Plans Final Approval			0	
1/20/2009	1/22/2009	L & D Report Development and Approval			0	
6/15/2009	4/20/2011	R/W Acquisition			0	
11/2/2009	11/13/2009	Stake R/W			0	
1/20/2009	2/24/2009	Bridge Foundation Investigation			0	
1/23/2009	10/2/2009	Final Design			0	
3/25/2009	5/19/2009	Final Bridge Plans Preparation			0	
10/26/2009	10/27/2009	FFPR Inspection			0	
11/10/2009	11/23/2009	FFPR Response			0	

BIKE PROVISIONS INCLUDED?: N

MEASUREMENT SYSTEM: E

CONSULTANT: C

UT EST: \$ 0.00

PDD:

NEED DOT TO BUY RW = 02, w/rdwy proj 621570.

Bridge:

IAB 05/02/08

Design:

NEW BRIDGE OVER SILVER COMET| NH-018-1(59) 621570

EIS:

EA/NotonSchedule/2-21-08/Phillips

LGPA:

PAULDING REF ROW & SGN PUBLIC UTIL 1-8-02|RESCISSION LETTER SENT TO PAULDING 6-3-05.

Prog. Develop: Project is no longer on the NHS 10-12-04. Programming: PR2/PE=3-12-93...NB CHANGE APRIL '94 DE/1595--NO \$'S FOR INC|#1 1-05

Railroad:

CSX(ABN)

Traffic Op:

SEND PLANS FOR REVIEW WHEN PFPR SET| 1-19-07 \$+*

Utility:

Plans resubmitted to utilities 3-1-07

EMG:

SAFETY (NEW BRIDGE WIDENING); SURVEY BY DIST. 7

R/W INFORMATION:

PREL PARCEL CT: 6 UNDER-REVIEW CT:

TOTAL PARCEL CT: RELEASED CT:

ACQUIRED BY: LOC

OPT-PEND CT:

ACQ MGR:

COND-PEND CT:

COND-FILED CT:

RW CERT DT:

ACQUIRED CT:

RELOCATION CT:

DEEDS CT:

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Wishon, Ron

From:

Taylor, Walter

Sent:

Thursday, June 19, 2008 2:14 PM

To:

Myers, Lisa

Cc:

Bastian, Clay; Simpson, Jim; Summers, Brian; Wishon, Ron

Subject: Attachments: NH000-0018-01(059) PI 621570 SR 61 Paulding County - VE Study Final Report 2010-2030 traffic 1_4 ADT.pdf; 2010-2030 traffic 3_4 DHV.pdf; 621570CV01.pdf; 621570

Alt.1(urban).doc; 621570 Alt.2(urban).doc

Lisa,

Attached are the items requested from the VE implementation meeting on the above project. I've included the ADT and DHV for SR 61 @ Dallas Nebo Road, the project cover sheet, and the ROW cost estimate for both alternates. For the ROW cost estimates, alternate 1 is where the alignment stays on the existing roadway and we have to go through the PAR process. Alternate 2 is where we redesign the road and avoid the need for a PAR. As you can see alternate 2 is the lower of the two estimates and it saves time/money because we don't have to have a PAR. Let me know if you need anything else.

Thanks,

Walter D. Taylor, P.E.

Assistant Design Group Manager Georgia Department of Transportation Office of Road Design

Phone: (404) 631-1617 Fax: (404) 631-1949

Email: wtaylor@dot.ga.gov

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Preliminary Right of Way Cost Estimate

Phil Copeland Right of Way Administrator By: Jerry Milligan

Date: April 22, 2008

UPDATE Project: NH000-0018-01(059)Paulding Alternate #1 (All Urban)

Existing/Required R/W: Varies/Varies

Project Termini: SR 61 Widening Alternate # 1 (All Urban)

Project Description: SR 61 Widening Project

P.I. Number: 621570 No. Parcels: 190

Land:

Commercial R/W: 4.57 acres @ \$ 80,000/acre \$ 365,760

Residential R/W: 41.15 acres @ \$ 16,500/acre 678,975

1,044,735

Improvements: Residences, Buildings, fencing, landscaping,

misc, site improvements

3,375,000

Relocation: Commercial (3)

Residential (16)

\$ 75,000 640,000

715,000

Damage: Proximity (36)

Consequential (0) Cost to Cure (5)

\$ 640,000 125,000

765,000

Net Cost

\$ 5,899,735

Net Cost

Scheduling Contingency Adm/Court Cost

55 % 60 % 5,899,735 3,244,854 5,486,753

\$ 14,631,342

Total Cost

\$14,631,350

Note: The Market Appreciation (40%) is not included in the updated Preliminary Cost Estimate.

Note: This update is based upon estimate by consultant dated July 26, 2007.

Preliminary Right of Way Cost Estimate

Phil Copeland Right of Way Administrator By: Jerry Milligan

Date: April 22, 2008

UPDATE

Project: NH000-0018-01(059)Paulding Alternate #2 (Urban)

Existing/Required R/W: Varies/Varies

Project Termini: SR 61 Widening Alternate #1 (Urban)

Project Description: SR 61 Widening Project

P.I. Number: 621570 No. Parcels: 190

Land:

Commercial R/W: 4.95 acres @ \$ 80,000/acre Residential R/W: 44.57 acres @ \$ 16,500/acre

\$ 396,160 735,405

1,131,565

Improvements: Residences, Buildings, fencing, landscaping,

misc. site improvements

3,225,000

Relocation: Commercial (3)

Residential (15)

\$ 75,000 600,000

675,000

Damage: Proximity (39)

Consequential (0) Cost to Cure (5) \$ 685,000 125,000

810,000

Net Cost

\$ 5,841,565

Net Cost

Scheduling Contingency Adm/Court Cost 55 % 60 % 5,841,565 3,212,860

5,432,655 \$ 14,487,080

Total Cost

\$14,487,100

Note: The Market Appreciation (40%) is not included in the updated Preliminary Cost Estimate.

Note: This update is based upon estimate by consultant dated July 26, 2007.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE NH000-0018-01(059) Paulding County

OFFICE

Road Design

PI No.: 621570

SR 61 Widening and Reconstruction

DATE

May 23, 2008

FROM

Brent Story, P.E., State Road and Airport Design Engineer

TO

Brian Summers, P.E., Project Review Engineer

Attention: Lisa Myers

SUBJECT VALUE ENGINEERING STUDY - FINAL REPORT RESPONSE

Below are the responses to the Value Engineering Study conducted on November 13-16, 2007, for the above referenced project. Each comment was studied and addressed by the Department's Project Manager.

ALTERNATIVE NUMBER RD-1:

Increase the use of 11' travel lanes.

COMMENTS:

This alternate is recommended for implementation.

ALTERNATIVE NUMBER RD-2:

Reduce side street work on SR 120 connector.

COMMENTS:

As designed, GDOT Design Policy Manual criteria are met. The length of construction on each side of the intersection is due to taper lengths required to create sufficient width for the intersection. Implementation of this alternate as presented is not recommended.

ALTERNATIVE NUMBER RD-3:

Use 6'0" paved outside shoulder in-lieu of 6'6" paved outside shoulder.

COMMENTS:

Where rural shoulders are used, due to drainage, the standard 6'-6" shoulder pavement will be used. This alternate does not meet GDOT Design policy Manual criteria. Implementation of this alternate is not recommended.

ALTERNATIVE NUMBER RD-4:

Utilize more consistent typical section throughout the project.

COMMENTS:

This alternative is recommended for implementation, with limitations due to drainage design. Both rural and urban shoulders may be utilized. Sidewalk can be constructed behind ditches as needed.

ALTERNATIVE NUMBER RD-5:

Re-align Campground School Road (Design Suggestion).

COMMENTS:

As designed the skew angle is acceptable. Radii and pavement markings control the operation. Additional construction and right of way costs would be encountered, if this alternative were implemented. Therefore this design suggestion is not recommended for implementation.

ALTERNATIVE NUMBER RD-6:

Retain Dallas/ Nebo Road intersection and improve it.

COMMENTS:

Existing skew is 43 degree, high volume of traffic, strong need to improve geometry. This alternative would reconstruct the intersection as right in/ right out. Traffic analysis indicates dual lefts from SR 61 onto Dallas/ Nebo Rd. and left turns from Dallas/Nebo onto SR 61 are required. This alternative is not recommended for implementation.

ALTERNATIVE NUMBER RD-7:

Re-align intersection at Akin Drive (Design Suggestion).

COMMENTS:

This design suggestion is recommended for implementation.

ALTERNATIVE NUMBER RD-8:

Use alternate wall in-lieu of Cast In Place.

COMMENTS:

Type of wall will be determined based on length, height, constructability and cost.

ALTERNATIVE NUMBER RD-9:

Sta. 90+00 to Sta. 125+00; Obtain environmental permit in-lieu of realignment.

COMMENTS:

This alternative is not recommended for implementation. Road Design has redesigned the realignment to lessen impacts and reduce right of way costs.

ALTERNATIVE NUMBER RD-10:

Eliminate Akin Ridge and Country Square Way intersections at Sta. 140+00 to Sta. 152+00 +/-.

COMMENTS:

This alternate will be a savings in construction time and cost and control ingress and egress at a single location. The implementation of this alternate is recommended.

ALTERNATIVE NUMBER RD-11:

Reconfigure intersection at 212+00 split intersection from 1-4 leg to 2-2 leg (Design Suggestion).

COMMENTS:

The implementation of this design suggestion is not recommended due to potential additional environmental impacts.

ALTERNATIVE NUMBER RD-13:

Reduce turn lane storage addition on 278 (Design Suggestion).

COMMENTS:

This design suggestion is recommended for implementation.

ALTERNATIVE NUMBER BR-1:

Use single span bridge structure to cross trail and future track.

COMMENTS:

The proposed alternative would reduce the existing cross section opening along the Silver Comet Trail. The proposed alternative would require more temporary shoring than the original design because the existing bridge structure is 135-ft long. The implementation of this alternate is not recommended.

ALTERNATIVE NUMBER BR-2:

Construct 10'x12'x100' Box Culvert in-lieu of a new bridge.

COMMENTS:

The proposed alternative would not provide the required 23-ft minimum vertical clearance over future railroad tracks. The implementation of this alternate is not recommended.

ALTERNATIVE NUMBER BR-3:

Use a "One-Span" BEBO precast structure in-lieu of a new bridge (trail and track).

COMMENTS:

The elevation drawing of the BEBO bridge structure supplied with the VE report was not drawn to scale and it appeared to be a generic elevation drawing for many different size BEBO structures. The VE report elevation drawing was enlarged and checked for vertical and horizontal clearances, but the drawing was not accurate to any scale. The required minimum vertical and horizontal clearance for 2 future railroad tracks does not appear to be present in the drawing provided. The proposed alternative would require more temporary shoring than the original design because the existing bridge structure is 135-ft long. The implementation of this alternate is not recommended.

ALTERNATIVE NUMBER BR-5:

Use a single span bridge structure to cross only the existing trail.

COMMENTS:

The proposed alternative would not provide for 2 future railroad tracks. The proposed alternative would reduce the existing cross section opening along the Silver Comet Trail. The proposed alternative would require more temporary shoring than the original design because the existing bridge structure is 135-ft long. The implementation of this alternate is not recommended.

Please contact Clay Bastian or Walt Taylor at (404) 656-5400 for any additional information or comments you may have.

BAS:CCB:WDT